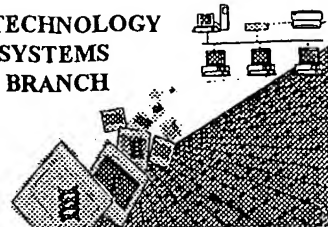


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/507,446

Source: PJ/10

Date Processed by STIC: 9/23/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



PCT

## RAW SEQUENCE LISTING

DATE: 09/23/2004

PATENT APPLICATION: US/10/507,446

TIME: 11:50:43

Input Set : A:\Sequence Listing PCT JP0302946.txt

Output Set : N:\CRF4\09232004\J507446.raw

3 <110> APPLICANT: GOTO, Hidetsugu  
 4 NAKANO, Shigeru  
 6 <120> TITLE OF INVENTION: Structural gene responsible for acetic acid resistance in  
 acetic  
 7 acid bacteria, acetic acid bacteria transformed with said gene,  
 8 and acetic acid fermentation using said transformations  
 10 <130> FILE REFERENCE: 4439-4024  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/507,446  
 C--> 13 <141> CURRENT FILING DATE: 2004-09-13  
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP03/02946  
 16 <151> PRIOR FILING DATE: 2003-03-12  
 18 <160> NUMBER OF SEQ ID NOS: 10  
 20 <170> SOFTWARE: PatentIn version 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 2016  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Gluconacetobacter entanii  
 27 <400> SEQUENCE: 1

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30	aattttgtca	tggaaatcga	ggacacgctc	gacgtttccg	tgccgcttga	ccggtctggct	120
32	gatataccga	ccattgatga	tctggctgcc	tgtatcgtct	ctctcaagca	ggcatcctga	180
34	tacaccatgt	cgattttctc	gaaatatgaa	ggccttgctg	ccgccctgtc	ggcggttaacg	240
36	gccgatgggt	ggcgcaaccc	gttcaacgtc	gtgatcgaaa	agcccatttc	ctccacgggtc	300
38	gggctgatcg	aagggcgcca	gacgtttctg	ttcggcacca	acaactatct	tgggctgagc	360
40	cagtcctccg	ccgcgatcga	agcgccgggt	gaagccgcca	gggcttatgg	tgtcggcacg	420
42	accgatcgcc	gcactgccaa	tggcacgcag	ggtctgcacc	gccagttgga	agagcggctg	480
44	tgcaccttct	tccgtcgtcg	gcactgcatg	gtgttttcca	ccggttacca	ggccaatctg	540
46	ggcacgattt	ccgcactggc	gggcaaggac	gattatctgc	tgcttgatgc	ggacagccat	600
48	gccagcatct	atgatggcag	ccgccttggc	catgcgcagg	tcacccgctt	ccgtcacaaac	660
50	gacgccgatg	acctgcataa	acgcctgcgc	cgccttgatg	gtacgcccga	agcgaaactg	720
52	gtcgtggctg	aaggcatcta	ttccatgatg	ggcgacgtcg	ttcccatggc	ggaattcgcg	780
54	gccgtcaagc	gggaaaccgg	tgcattggctg	ctggcggtatg	aagcacattc	cgttggtgta	840
56	atgggcgaac	atggccgtgg	cgtggcgga	tccgacggcg	tggagatga	tgtcgatttt	900
58	gtcgtcgcca	ccttttccaa	aagccttggc	acggttggtg	gctactgtgt	ttccaaccat	960
60	gccgggctgg	acctgatccg	gctgtgttgc	cgtccgtaca	tggtcaccgc	atccctgccg	1020
62	ccggaagtca	tcgcccgcac	catggccgcg	ctgactgaac	tggaaaaccg	gccggaactg	1080
64	cgcgtgcggt	tgatggacaa	tgcacgcagg	cttcatgacg	ggctgcaggc	ggccggcctg	1140
66	cgcaccggcc	cgcaggccag	tcctgtcgtg	tccgtcattc	tggatgatgt	ggcggttgcc	1200
68	gtggcggttct	ggaaccggct	gctggacctt	ggggtttacg	tcaacctcag	cctgccgcct	1260
70	gcaacgcccg	accagcatcc	cctgctgcgg	acctccgtca	tggcgaccca	tacgccggag	1320
72	cagatagacc	gggcccgtga	aatcttcgcc	gttgtagcgg	gcgagatggg	tatcaaccgc	1380
74	gccgcctgaa	aaaacctgcc	tgcgcgtaatt	tccacagcag	atacggcagg	cagaccagcg	1440
76	gatgccgttc	cgaaaacggc	cccagcggca	gttcaatgcc	ggaatgccgc	ctgatcttcc	1500
78	atgcgatata	gcgcgcgcca	ccttcaaaccg	tgaaggcccc	cttgaacagg	cggctgacat	1560

Does Not Comply  
 Corrected Diskette Needed

5-6

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/507,446

DATE: 09/23/2004

TIME: 11:50:43

Input Set : A:\Sequence Listing PCT JP0302946.txt

Output Set: N:\CRF4\09232004\J507446.raw

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80 tcagcacgcg cccagccga ccacgcagcc accagccttc gtacatcttc cggcgcagtt 1620
82 caggtgtcag ctgggggggt agttgatcgc cctcagaccg gaacggcagg ccatcggcgc 1680
84 gccatacatc cggcagcagg cgctgtacc gtgcttctcg cccctgtagc aggctacgcg 1740
86 gcctgcggcc gttctccaca cgcagttccg caccgtaagt atgggcgaac agggccagcc 1800
88 agtagtcacg ggccgtgccc tgtgccggac ccagggcggc agcccagcgc cccgcctgcc 1860
90 ccaccgcgcg gataatgcag gccaggatgg catcgccgcg gtccggttcc ctgaccata 1920
92 caagcgcac aggtggcag aagcgtgccc agaccgtggt atccaacgtg gcgcgtccc 1980
94 tcatgcggcg gaactgcgct atggacagga tggcca 2016
97 <210> SEQ ID NO: 2
98 <211> LENGTH: 400
99 <212> TYPE: PRT
100 <213> ORGANISM: Gluconacetobacter entanii
102 <400> SEQUENCE: 2
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105 1 5 10 15
108 Val Thr Ala Asp Gly Gly Arg Asn Pro Phe Asn Val Val Ile Glu Lys
109 20 25 30
112 Pro Ile Ser Ser Thr Val Gly Leu Ile Glu Gly Arg Glu Thr Leu Leu
113 35 40 45
116 Phe Gly Thr Asn Asn Tyr Leu Gly Leu Ser Gln Ser Pro Ala Ala Ile
117 50 55 60
120 Glu Ala Ala Val Glu Ala Ala Arg Ala Tyr Gly Val Gly Thr Thr Gly
121 65 70 75 80
124 Ser Arg Ile Ala Asn Gly Thr Gln Gly Leu His Arg Gln Leu Glu Glu
125 85 90 95
128 Arg Leu Cys Thr Phe Phe Arg Arg Arg His Cys Met Val Phe Ser Thr
129 100 105 110
132 Gly Tyr Gln Ala Asn Leu Gly Thr Ile Ser Ala Leu Ala Gly Lys Asp
133 115 120 125
136 Asp Tyr Leu Leu Leu Asp Ala Asp Ser His Ala Ser Ile Tyr Asp Gly
137 130 135 140
140 Ser Arg Leu Gly His Ala Gln Val Ile Arg Phe Arg His Asn Asp Ala
141 145 150 155 160
144 Asp Asp Leu His Lys Arg Leu Arg Arg Leu Asp Gly Thr Pro Gly Ala
145 165 170 175
148 Lys Leu Val Val Val Glu Gly Ile Tyr Ser Met Met Gly Asp Val Val
149 180 185 190
152 Pro Met Ala Glu Phe Ala Ala Val Lys Arg Glu Thr Gly Ala Trp Leu
153 195 200 205
156 Leu Ala Asp Glu Ala His Ser Val Gly Val Met Gly Glu His Gly Arg
157 210 215 220
160 Gly Val Ala Glu Ser Asp Gly Val Glu Asp Asp Val Asp Phe Val Val
161 225 230 235 240
164 Gly Thr Phe Ser Lys Ser Leu Gly Thr Val Gly Gly Tyr Cys Val Ser
165 245 250 255
168 Asn His Ala Gly Leu Asp Leu Ile Arg Leu Cys Ser Arg Pro Tyr Met
169 260 265 270
172 Phe Thr Ala Ser Leu Pro Pro Glu Val Ile Ala Ala Thr Met Ala Ala
173 275 280 285

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/507,446

DATE: 09/23/2004

TIME: 11:50:43

Input Set : A:\Sequence Listing PCT JP0302946.txt

Output Set: N:\CRF4\09232004\J507446.raw

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176 Leu Thr Glu Leu Glu Asn Arg Pro Glu Leu Arg Val Arg Leu Met Asp
177      290      295      300
180 Asn Ala Arg Arg Leu His Asp Gly Leu Gln Ala Ala Gly Leu Arg Thr
181 305      310      315      320
184 Gly Pro Gln Ala Ser Pro Val Val Ser Val Ile Leu Asp Asp Val Ala
185      325      330      335
188 Val Ala Val Ala Phe Trp Asn Arg Leu Leu Asp Leu Gly Val Tyr Val
189      340      345      350
192 Asn Leu Ser Leu Pro Pro Ala Thr Pro Asp Gln His Pro Leu Leu Arg
193      355      360      365
196 Thr Ser Val Met Ala Thr His Thr Pro Glu Gln Ile Asp Arg Ala Val
197      370      375      380
200 Glu Ile Phe Ala Val Val Ala Gly Glu Met Gly Ile Asn Arg Ala Ala
201 385      390      395      400
204 <210> SEQ ID NO: 3
205 <211> LENGTH: 1360
206 <212> TYPE: DNA
207 <213> ORGANISM: Acetobacter aceti
209 <400> SEQUENCE: 3
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212 gaccttgccg cttgcattgt tgctctgaaa aacaaagggg gaggcgtgga tgacatcact      120
214 attttccaaa tttgaaggta cggcaggcgc gctgggttcc gttgtggccg taggcggtcg      180
216 caaccctttt gctgttggtt ttgaaaaacc tgtctcttca actggttgaa ttattgaagg      240
218 tcgggaaacg cttctttttg gcaccaataa ctatttgggg cttagtcaat ccaaaaatgc      300
220 cattcaagca gccagcagg ctgccgcggc atgtggcgta ggcacaacgg gctcacgcat      360
222 tgcaaatggc acacaatccc tgcaccgaca gcttgaaaaa gatattgccg cgttttttgg      420
224 tcggcgtgat gccatggttt tttccacggg gtatcaggca aacctcggca ttatttccac      480
226 gctggcaggt aaggatgacc acctgtttct ggatgctgat agccacgcca gtatctatga      540
228 tggcagccgc ctgagtgcag cagaagttat tcgcttcgcg cataatgatc cagacaacct      600
230 ttataaacgc cttaaacgca tggatggcac gccaggcgcc aaattgattg tggttgaagg      660
232 catttattcc atgacgggta atgttgcccc gattgcagaa tttgttgctg ttaaaaaaga      720
234 aacaggcgct tacctgctgg tagatgaagc ccattctttt ggctgtgttg gtcaaaatgg      780
236 gcgtgggtgcc gctgaggctg atggcgtgga agctgatgtg gactttgttg tcggcacatt      840
238 ttccaaaagc ttgggcacag ttggcggtta ctgcgtatct gaccatcctg agctggagtt      900
240 tgtgcgctta aactgccggc cctatatgtt tacggcatcg ctaccgccgg aagttattgc      960
242 tgccacaacg gctgccttga aagatatgca ggcacatcct gaattgcgta agcagcttat      1020
244 ggcaaacgcg cagcaactac atgcagggtt ttagatatatt gggctaaatg ccagcaaaca      1080
246 cgcaacccca gttattgccg ttacattgga aacagctgaa gaagctattc ccatgtggaa      1140
248 caggcttttg gaacttggtg tttatgtaaa tctcagcctt cctccggcta caccagattc      1200
250 gcggccgctt ctccgttggt ccgtaatggc caccatacag cccgaacaaa ttgcgcaggc      1260
252 tattgccata ttcaggcagg ctgcggcaga agtaggcgta accatcacac cctccgctgc      1320
254 ttaaaaaaaa gctatttgcg cttgaatgcc ccttgctgcc      1360
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258 <211> LENGTH: 404
259 <212> TYPE: PRT
260 <213> ORGANISM: Acetobacter aceti
262 <400> SEQUENCE: 4
264 Met Thr Ser Leu Phe Ser Lys Phe Glu Gly Thr Ala Gly Ala Leu Gly
265 1      5      10      15

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## RAW SEQUENCE LISTING

DATE: 09/23/2004

PATENT APPLICATION: US/10/507,446

TIME: 11:50:43

Input Set : A:\Sequence Listing PCT JP0302946.txt

Output Set: N:\CRF4\09232004\J507446.raw

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268 Ser Val Val Ala Val Gly Gly Arg Asn Pro Phe Ala Val Val Ile Glu
269          20          25          30
272 Lys Pro Val Ser Ser Thr Val Gly Ile Ile Glu Gly Arg Glu Thr Leu
273          35          40          45
276 Leu Phe Gly Thr Asn Asn Tyr Leu Gly Leu Ser Gln Ser Lys Asn Ala
277          50          55          60
280 Ile Gln Ala Ala Gln Gln Ala Ala Ala Ala Cys Gly Val Gly Thr Thr
281 65          70          75          80
284 Gly Ser Arg Ile Ala Asn Gly Thr Gln Ser Leu His Arg Gln Leu Glu
285          85          90          95
288 Lys Asp Ile Ala Ala Phe Phe Gly Arg Arg Asp Ala Met Val Phe Ser
289          100         105         110
292 Thr Gly Tyr Gln Ala Asn Leu Gly Ile Ile Ser Thr Leu Ala Gly Lys
293          115         120         125
296 Asp Asp His Leu Phe Leu Asp Ala Asp Ser His Ala Ser Ile Tyr Asp
297          130         135         140
300 Gly Ser Arg Leu Ser Ala Ala Glu Val Ile Arg Phe Arg His Asn Asp
301 145          150         155         160
304 Pro Asp Asn Leu Tyr Lys Arg Leu Lys Arg Met Asp Gly Thr Pro Gly
305          165         170         175
308 Ala Lys Leu Ile Val Val Glu Gly Ile Tyr Ser Met Thr Gly Asn Val
309          180         185         190
312 Ala Pro Ile Ala Glu Phe Val Ala Val Lys Lys Glu Thr Gly Ala Tyr
313          195         200         205
316 Leu Leu Val Asp Glu Ala His Ser Phe Gly Val Leu Gly Gln Asn Gly
317          210         215         220
320 Arg Gly Ala Ala Glu Ala Asp Gly Val Glu Ala Asp Val Asp Phe Val
321 225         230         235         240
324 Val Gly Thr Phe Ser Lys Ser Leu Gly Thr Val Gly Gly Tyr Cys Val
325          245         250         255
328 Ser Asp His Pro Glu Leu Glu Phe Val Arg Leu Asn Cys Arg Pro Tyr
329          260         265         270
332 Met Phe Thr Ala Ser Leu Pro Pro Glu Val Ile Ala Ala Thr Thr Ala
333          275         280         285
336 Ala Leu Lys Asp Met Gln Ala His Pro Glu Leu Arg Lys Gln Leu Met
337          290         295         300
340 Ala Asn Ala Gln Gln Leu His Ala Gly Phe Val Asp Ile Gly Leu Asn
341 305         310         315         320
344 Ala Ser Lys His Ala Thr Pro Val Ile Ala Val Thr Leu Glu Thr Ala
345          325         330         335
348 Glu Glu Ala Ile Pro Met Trp Asn Arg Leu Leu Glu Leu Gly Val Tyr
349          340         345         350
352 Val Asn Leu Ser Leu Pro Pro Ala Thr Pro Asp Ser Arg Pro Leu Leu
353          355         360         365
356 Arg Cys Ser Val Met Ala Thr His Thr Pro Glu Gln Ile Ala Gln Ala
357          370         375         380
360 Ile Ala Ile Phe Arg Gln Ala Ala Ala Glu Val Gly Val Thr Ile Thr
361 385         390         395         400
364 Pro Ser Ala Ala

```

## RAW SEQUENCE LISTING

DATE: 09/23/2004

PATENT APPLICATION: US/10/507,446

TIME: 11:50:43

Input Set : A:\Sequence Listing PCT JP0302946.txt

Output Set: N:\CRF4\09232004\J507446.raw

368 <210> SEQ ID NO: 5  
369 <211> LENGTH: 30  
370 <212> TYPE: DNA  
C--> 371 <213> ORGANISM: Artificial Sequence  
W--> 373 <220> FEATURE:  
W--> 373 <223> OTHER INFORMATION:  
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377 <210> SEQ ID NO: 6  
378 <211> LENGTH: 30  
379 <212> TYPE: DNA  
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383 acggctgcag ctggtctgcc tgccgtatct 30  
386 <210> SEQ ID NO: 7  
387 <211> LENGTH: 30  
388 <212> TYPE: DNA  
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396 <211> LENGTH: 29  
397 <212> TYPE: DNA  
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404 <210> SEQ ID NO: 9  
405 <211> LENGTH: 30  
406 <212> TYPE: DNA  
C--> 407 <213> ORGANISM: Artificial Sequence  
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414 <211> LENGTH: 29  
415 <212> TYPE: DNA  
C--> 416 <213> ORGANISM: Artificial Sequence  
W--> 418 <220> FEATURE:  
W--> 418 <223> OTHER INFORMATION:  
W--> 418 <400> 10  
419 cagccttctt cggctacac cagattcgc 29

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 09/23/2004

PATENT APPLICATION: US/10/507,446

TIME: 11:50:44

Input Set : A:\Sequence Listing PCT JP0302946.txt

Output Set: N:\CRF4\09232004\J507446.raw

*error explanation*

Use of <220> Feature (NEW RULES) :

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:5,6,7,8,9,10

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/507,446

DATE: 09/23/2004

TIME: 11:50:44

Input Set : A:\Sequence Listing PCT JP0302946.txt

Output Set: N:\CRF4\09232004\J507446.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:371 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:373 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213>  
ORGANISM:Artificial Sequence  
L:373 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>  
ORGANISM:Artificial Sequence  
L:373 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:373  
L:380 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:382 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:6, <213>  
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L:382 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:382  
L:389 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
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L:391 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:391  
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L:409 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:9, <213>  
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L:409 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:409  
L:416 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:418 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>  
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